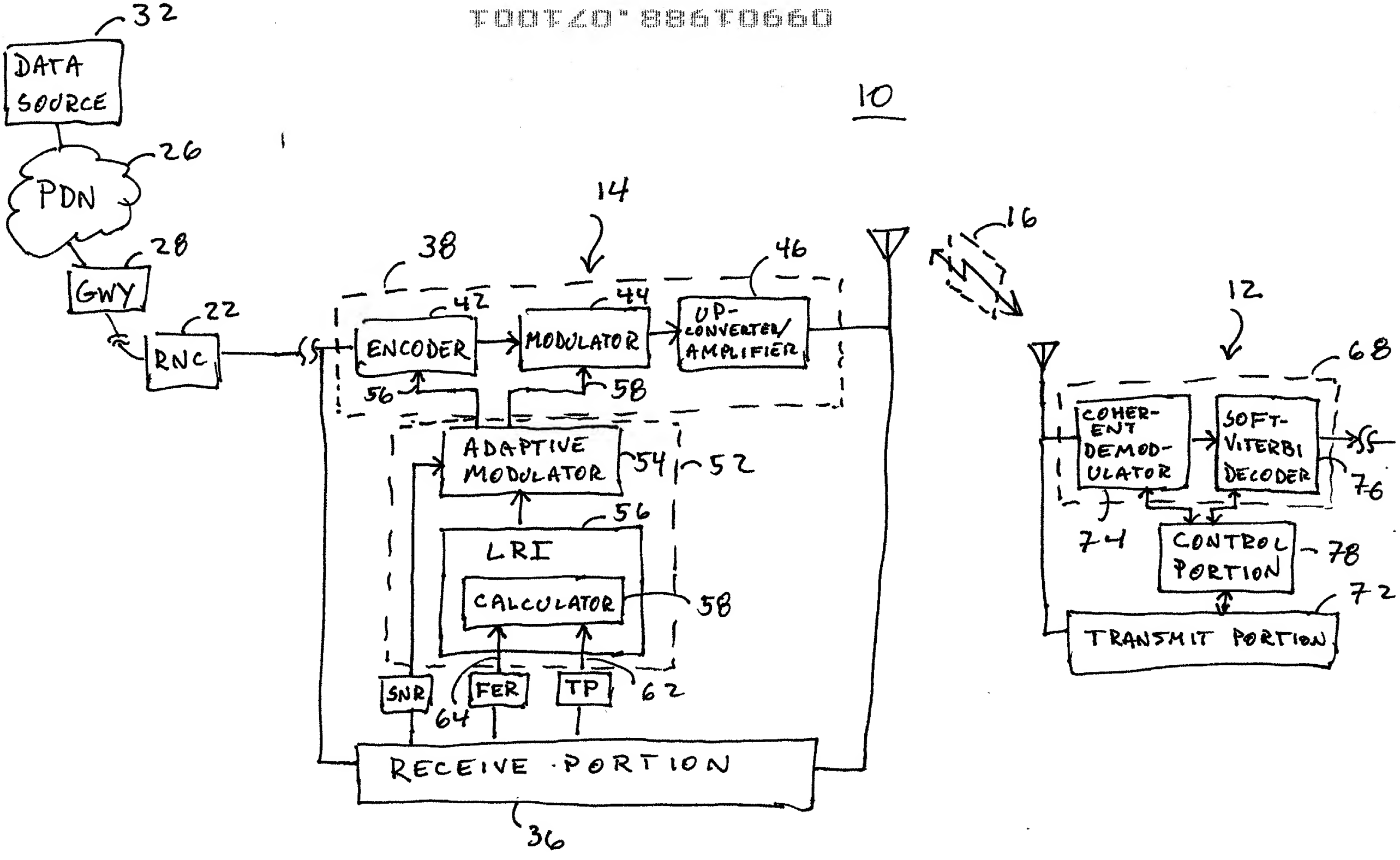
10
32
DATA SOURCE
26
PDN
28
GWY
22
RNC
14
38
42
ENCODER
44
MODULATOR
46
UP-CONVERTER/ AMPLIFIER
56
58
ADAPTIVE MODULATOR
54
52
56
LRI
CALCULATOR
58
SNR
FER
TP
62
64
RECEIVE PORTION
36
16
12
68
COHER-ENT DEMOD-ULATOR
SOFT-VITERBI DECODER
76
74
CONTROL PORTION
78
72
TRANSMIT PORTION

FIG. 1

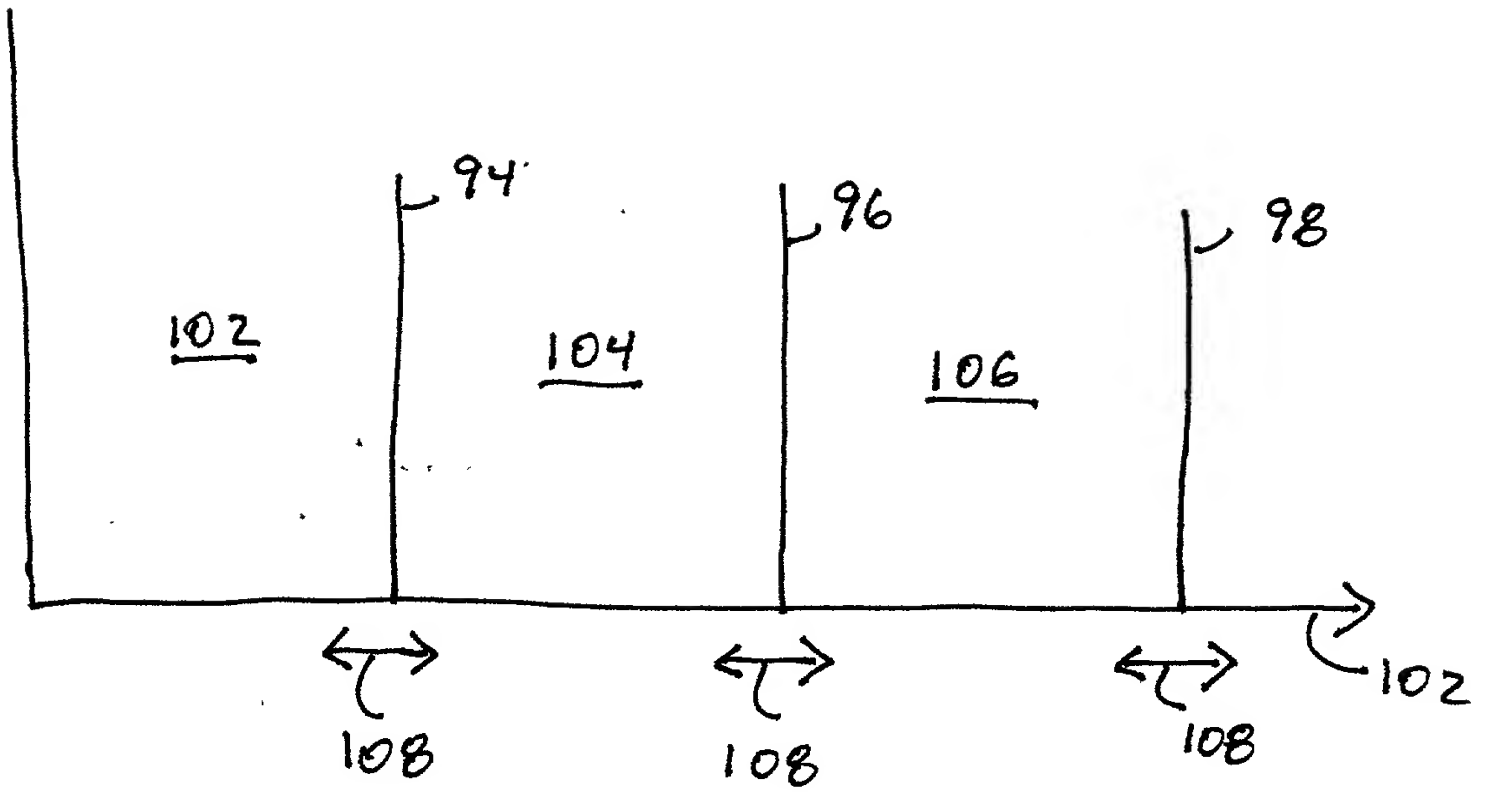

FIG. 2

112

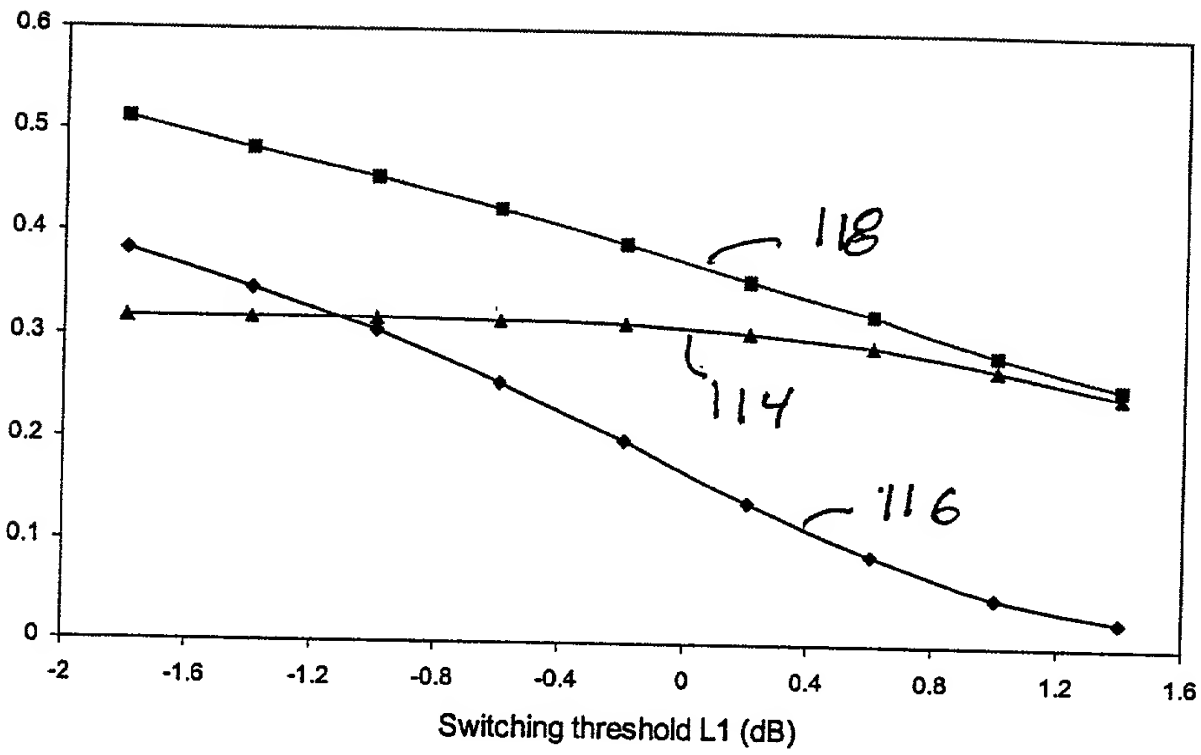
0.6
0.5
0.4
0.3
0.2
0.1
0
-2
-1.6
-1.2
-0.8
-0.4
0
0.4
0.8
1.2
1.6
Switching threshold L1 (dB)
118
114
116

FIG. 3

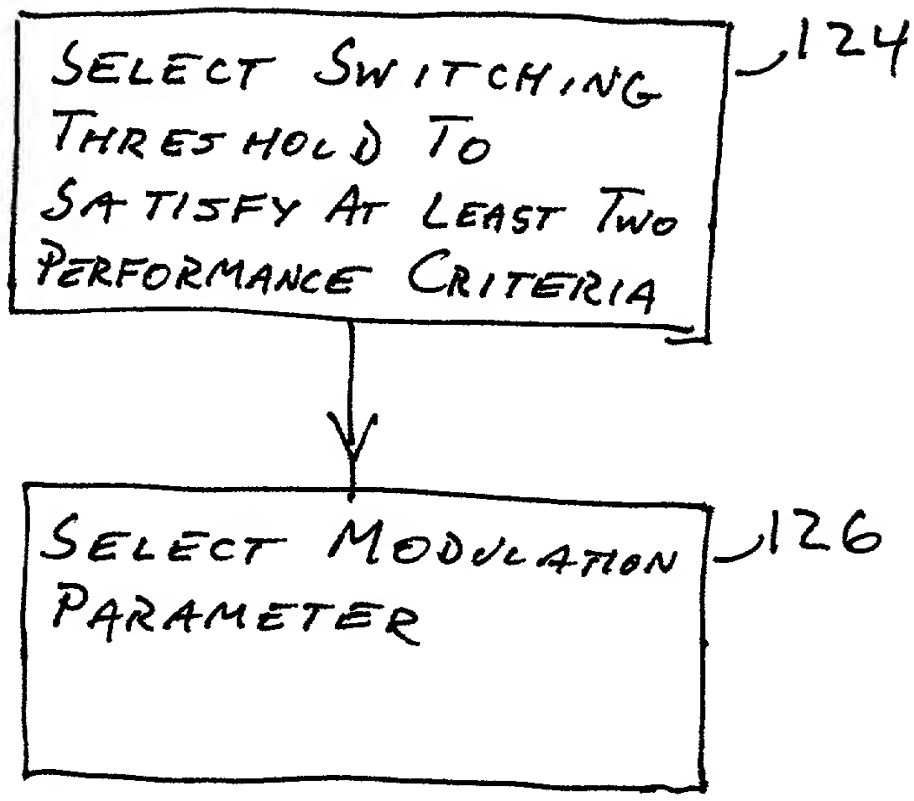
122
SELECT SWITCHING THRESHOLD TO SATISFY AT LEAST TWO PERFORMANCE CRITERIA
124
SELECT MODULATION PARAMETER
126

FIG. 4